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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent application of:  
Wittes et al.

MMB Docket No. **1890-0009**

Application No. **10/714,811**

Filed: **November 17, 2003**

For: **Method and Filter Arrangement  
for Digital Recursive Filtering  
in the Time Domain**

Examiner: **To be assigned**

Group Art Unit: **2124**

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James D. Wood

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January 18, 2006

Date of Signature

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, Applicants hereby disclose the following reference(s)  
regarding the above-identified patent application.

U.S. Patent No.

5,089,981

5,808,924

Inventor

Cabot

White

Issue Date

Feb. 18, 1992

Sep. 15, 1998

Foreign References

EP 0 179 984 A2

Publication Date

May 7, 1986

Country

Germany

**Articles**

- 1) Fam et al., "Low Roundoff Noise Augmented IIR Filters Based on Normal Realization", IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing, New York, US, Vol. 8, No. 8, Aug. 1992, pp. 540-548, (9 pages).
- 2) Proakis et al., "Digital Signal Processing: Principles, Algorithms, and Applications", Third Edition, Prentice Hall, 1996, pp. 519-539, (21 pages).
- 3) Price et al. "Accurate Parallel Form Filter Synthesis", Electronics Letters, Vol. 32, No. 22, Oct. 1996, pp. 2066-2067, (2 pages).

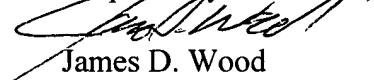
U.S. Patent Nos. 5,089,981 and 5,808,924, EP 0 179 984 A2 and the articles listed above were cited in a European Search Report (copy enclosed) dated Dec. 6, 2005 for priority application EP 04 023 031.0. An English language abstract for EP 0 179 984 A2 is enclosed.

Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed within three months after the filing date of the application or before the mailing of the first office action on the merits.


It is believed that no fees are due for the consideration of this Information Disclosure Statement. However, the Commissioner is hereby authorized to charge any deficiency or to credit any overpayment to Deposit Account No. 13-0014, but not to include any payment of issue fees.

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Respectfully Submitted,



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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT 	MMB DOCKET NO. 1890-0009	APPLICATION NO.: 10/714,811
	APPLICANT(S): Mattes et al.	
	FILING DATE: Nov. 17, 2003	GROUP ART UNIT: 2124

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	5,089,981	Feb. 18, 1992	Cabot			
	AB	5,808,924	Sep. 15, 1998	White			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL	EP 0 179 984 A2	May 7, 1986	Germany			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AQ		Fam et al., "Low Roundoff Noise Augmented IIR Filters Based on Normal Realization", IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing, New York, US, Vol. 8, No. 8, Aug. 1992, pp. 540-548, (9 pages).
	AR		Proakis et al., "Digital Signal Processing: Principles, Algorithms, and Applications", Third Edition, Prentice Hall, 1996, pp. 519-539, (21 pages).
	AS		Price et al. "Accurate Parallel Form Filter Synthesis", Electronics Letters, Vol. 32, No. 22, Oct. 1996, pp. 2066-2067, (2 pages).

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicants.